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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,657	10/17/2003	Qiang Luo	89038PCW	1222

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PATENT LEGAL STAFF
EASTMAN KODAK COMPANY
343 STATE STREET
ROCHESTER, NY 14650-2201

EXAMINER

HENN, TIMOTHY J

ART UNIT

PAPER NUMBER

2622

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/688,657	LUO, QIANG	
	Examiner Timothy J. Henn	Art Unit 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 17 October 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-19 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 17 October 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Prentice et al. (US 2003/0030729).

[claim 8]

Regarding claim 8, Prentice discloses an apparatus for reducing charge diffusion crosstalk, comprising: means for inputting crosstalk coefficients for a first pixel of a first color for reducing diffusion crosstalk (Figure 5, Item 77 or Figure 6, Item 102); means for sampling the first pixel to produce a first measured pixel value and means for sampling the adjacent pixels to produce adjacent measured pixel values (Figures 5 and 6; RAW IMAGE DATA; Figure 1, CCD CLOCK DRIVERS and CCD TIMING GENERATOR); and means for applying the crosstalk coefficients to the first measured pixel and the adjacent measured pixel values such that crosstalk effects are reduced in the first measured pixel value (Figure 5, Item 90 or Figure 6, Item 104; Paragraph 0039 or 0052).

[claim 9]

Regarding claim 9, Prentice discloses adjacent pixels which are selected from a group consisting of pixels immediately surrounding the first pixel (e.g. Figure 4).

[claim 10]

Regarding claim 10, Prentice discloses adjacent pixels of different colors are of two colors (e.g. R and B) immediately surrounding the first pixel (e.g. G; Figure 4).

[claim 11]

Regarding claim 11, Prentice discloses an apparatus further comprising means for applying color correction coefficients (e.g. Hue and Saturation) to the first measured pixel value and the adjacent measured pixel values such that the first color filter spectral response is improved in the first measured pixel (Figure 3B; Paragraph 0039 or 0052).

[claim 12]

Regarding claim 12, Prentice discloses combining the crosstalk and color correction coefficients (Paragraph 0039 or 0052).

[claim 13]

Regarding claim 13, Prentice discloses combining the coefficients are combined in a matrix which is available prior to applying crosstalk correction (Paragraph 0039 or 0052).

[claim 14]

Regarding claim 14, Prentice discloses applying crosstalk coefficients in a motion mode using a LUT (Paragraphs 0056-0059). The examiner notes that a LUT does not use multiplier means or adding means, therefore the limitation of applying crosstalk coefficients "using no more than three multiplier means and no more than two adder

means" is met by at least the motion mode processing path of Prentice.

[claims 1-7]

Claims 1-7 are method claims corresponding to apparatus claims 8-14.

Therefore, claims 1-7 are analyzed and rejected as previously discussed with respect to claims 8-14.

[claims 15-19]

Regarding claims 15-19, see claims 8-11 and 14 respectively.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

i.	Edgar et al.	US 5,673,336
ii.	Ford	US 6,965,692
iii.	Skow	US 7,102,669

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Henn whose telephone number is (571) 272-7310. The examiner can normally be reached on M-F 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on (571) 272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TJH
1/4/2007



VIVEK SRIVASTAVA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600